

WHAT IS CLAIMED IS:

1. A liquid crystal display device comprising:  
a scanning line over a substrate;  
5 a signal line intersecting the scanning line over the substrate;  
a pixel electrode electrically connected to the scanning line and the signal  
line over the substrate; and  
an opposed electrode over the pixel electrode,  
wherein the pixel electrode contains a main face, a first face closer to the  
10 opposed electrode than the main face, and a second face closer to the opposed  
electrode than the first face,  
wherein the first face is extended along the scanning line, and  
wherein the second face is adjacent to an intersection between the scanning  
line and the signal line.

15 2. A liquid crystal display device according to claim 1, wherein the liquid  
crystal display device is driven by a gate line inversion drive.

3. A liquid crystal display device according to claim 1, wherein the liquid  
20 crystal display device is incorporated in one selected from the group consisting of a  
personal computer, a video camera, a mobile computer, a goggle type display, a  
DVD player, a digital camera, a projector, a portable telephone, and a portable  
electronic book.

25 4. A liquid crystal display device comprising:  
a plurality of pixel electrodes over a substrate, each of the plurality of pixel  
electrodes containing a main face, and first to fourth end portions enclosing the  
main face, wherein the first end portion is extended along a first scanning line, and  
the third end portion is extended along a second scanning line adjacent to the first  
30 scanning line, and wherein the second end portion is extended along a first signal

line and interposed between the first end portion and the third end portion, and the fourth end portion is extended along a second signal line adjacent to the first signal line and interposed between the first end portion and the third end portion; and an opposed electrode over the plurality of pixel electrodes,

5 wherein the second end portion and the fourth end portion are at a same height as the main face, and the first end portion and the third end portion are disposed closer to the opposed electrode than the main face,

wherein two end portions of the first end portion are further closer to the opposed electrode than the center of the first end portion, and

10 wherein two end portions of the third end portion are further closer to the opposed electrode than the center of the third end portion.

5. A liquid crystal display device according to claim 4, wherein the liquid crystal display device is driven by a gate line inversion drive.

15 7. A liquid crystal display device according to claim 4, wherein the plurality of pixel electrodes are adjacent to each other such that a distance between the second end portion of one pixel electrode and the fourth end portion of the other pixel electrode is 2.0  $\mu\text{m}$  or less.

20 8. A liquid crystal display device according to claim 4, wherein the two end portions of the first end portion are closer by 0.5  $\mu\text{m}$  or more to the opposed electrode than the central portion of the first end portion.

25 9. A liquid crystal display device according to claim 4, wherein the two end portions of the third end portion are closer by 0.5  $\mu\text{m}$  or more to the opposed electrode than the central portion of the third end portion.

10. A liquid crystal display device according to claim 4, wherein the liquid 30 crystal display device is incorporated in one selected from the group consisting of a

personal computer, a video camera, a mobile computer, a goggle type display, a DVD player, a digital camera, a projector, a portable telephone, and a portable electronic book.

5        11. A liquid crystal display device comprising:  
a scanning line over a substrate;  
a signal line intersecting the scanning line over the substrate;  
a pixel electrode electrically connected to the scanning line and the signal line over the substrate; and  
10        an opposed electrode over the pixel electrode,  
wherein the pixel electrode contains a main face, a first face closer to the opposed electrode than the main face, and a second face closer to the opposed electrode than the first face,  
wherein the first face is extended along the signal line, and  
15        wherein the second face is adjacent to an intersection between the scanning line and the signal line.

20        12. A liquid crystal display device according to claim 11, wherein the liquid crystal display device is driven by a source line inversion drive.

25        13. A liquid crystal display device according to claim 11, wherein the liquid crystal display device is incorporated in one selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD player, a digital camera, a projector, a portable telephone, and a portable electronic book.

30        14. A liquid crystal display device comprising:  
a plurality of pixel electrodes over a substrate, each of the plurality of pixel electrodes containing a main face, and first to fourth end portions enclosing the main face, wherein the first end portion is extended along a first signal line, and the

third end portion is extended along a second signal line adjacent to the first signal line, and wherein the second end portion is extended along a first scanning line and interposed between the first end portion and the third end portion, and the fourth end portion is extended along a second scanning line adjacent to the first scanning line and interposed between the first end portion and the third end portion; and

5 an opposed electrode over the plurality of pixel electrodes,

wherein the second end portion and the fourth end portion are at a same height as the main face, and the first end portion and the third end portion are disposed closer to the opposed electrode than the main face,

10 wherein two end portions of the first end portion are further closer to the opposed electrode than the center of the first end portion, and

wherein two end portions of the third end portion are further closer to the opposed electrode than the center of the third end portion.

15 15. A liquid crystal display device according to claim 14, wherein the liquid crystal display device is driven by a source line inversion drive.

16. A liquid crystal display device according to claim 14, wherein the plurality of pixel electrodes are adjacent to each other such that a distance between

20 the second end portion of one pixel electrode and the fourth end portion of the other pixel electrode is 2.0  $\mu\text{m}$  or less.

17. A liquid crystal display device according to claim 14, wherein the two end portions of the first end portion are closer by 0.5  $\mu\text{m}$  or more to the opposed electrode than the central portion of the first end portion.

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18. A liquid crystal display device according to claim 14, wherein the two end portions of the third end portion are closer by 0.5  $\mu\text{m}$  or more to the opposed electrode than the central portion of the third end portion.

19. A liquid crystal display device according to claim 14, wherein the liquid crystal display device is incorporated in one selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD player, a digital camera, a projector, a portable telephone, and a portable electronic book.

20. A liquid crystal display device comprising:  
a scanning line over a substrate;  
a signal line intersecting the scanning line over the substrate;  
10 a pixel electrode electrically connected to the scanning line and the signal line over the substrate; and  
an opposed electrode over the pixel electrode,  
wherein the pixel electrode contains a main face, and a first face closer to the opposed electrode than the main face, and  
15 wherein the first face is extended along the scanning line.

21. A liquid crystal display device according to claim 20, wherein the liquid crystal display device is driven by a gate line inversion drive.

20 22. A liquid crystal display device according to claim 20, wherein the liquid crystal display device is incorporated in one selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD player, a digital camera, a projector, a portable telephone, and a portable electronic book.

25 23. A liquid crystal display device comprising:  
a scanning line over a substrate;  
a signal line intersecting the scanning line over the substrate;  
a pixel electrode electrically connected to the scanning line and the signal line  
30 over the substrate; and

an opposed electrode over the pixel electrode,  
wherein the pixel electrode contains a main face, and a first face closer to the  
opposed electrode than the main face, and  
wherein the first face is extended along the signal line.

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24. A liquid crystal display device according to claim 23, wherein the liquid  
crystal display device is driven by a source line inversion drive.

25. A liquid crystal display device according to claim 23, wherein the liquid  
10 crystal display device is incorporated in one selected from the group consisting of a  
personal computer, a video camera, a mobile computer, a goggle type display, a  
DVD player, a digital camera, a projector, a portable telephone, and a portable  
electronic book.

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